



Atty. Ref.: H 2182

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Martin Klein
Christian Schmidt

Appl. No. : 10/047,556

Filed : October 23, 2001

For : DETECTOR

Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED
MAY 30 2002
OFFICE OF PETITIONS
*#4
P.M.-APR-3
3-12-03*

PRELIMINARY AMENDMENT

Sir:

Prior to examination, and prior to calculating final fees, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 1, delete the heading that precedes the first paragraph and insert the following two headings:

BACKGROUND OF THE INVENTION

Field of the Invention

Amend the first paragraph of the application to read as follows:

The invention relates to a detector for detecting electrically neutral particles, to a converter device for a detector for detecting electrically neutral particles, to a method for producing a converter device and to a detection method for detecting electrically neutral particles.

After the first full paragraph, insert the following new heading:

a² Description of the Related Art

Delete the paragraph extending from page 5, line 24 through page 6 line 2
and insert the following new heading:

a³ SUMMARY OF THE INVENTION

a⁴ Page 16, between lines 14 and 15, insert the heading:

a⁴ BRIEF DESCRIPTION OF THE DRAWINGS

a⁵ Page 17, between lines 15 and 16, insert the heading:

a⁵ DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

a⁶ IN THE ABSTRACT:

Delete the original abstract and substitute the new Abstract presented on the
separate page attached hereto.

a⁷ IN THE CLAIMS:

1. A detector for detecting electrically neutral particles, having
 - a detector housing (10) which at least in certain regions is filled with a counting gas,
 - at least one converter device (22) which is arranged in the detector housing (10) and generates conversion products as a result of the absorption of the neutral particles which are to be detected, the conversion products generating electrically charged particles in the counting gas,
 - at least one readout device (19) for detecting the electrically charged particles,
 - at least one device (18) for generating an electrical drift field for the electrically charged particles in at least a region of the volume of the counting gas in such